

Sample Questions

For

Bachelor of Science (Information Technology)-Regular-Rev16

No Branch-T.Y.BSc(I.T.)-Sem V

Following questions are provided for the benefit of students. These are indicative only.

Software Project Management

Unit 1	
1.	What are the Activities covered by Project Management?
2.	NPV Stands for _____.
3.	Software Service Projects includes _____.
4.	Which of the following is not a stakeholder?
5.	Project Cost does not involve _____.
6.	_____ can also act as a 'business case'.
7.	PPM stands for _____.
8.	In Cost benefit Evaluation, Negative values represent _____.
9.	Given a business case: Cash flow in Year 0 was -100000, Year 1 was 20000, Year 2 was 20000, Year 3 was 30000, Year 4 was 20000, Year 5 was 30000, What is the Net Profit?
10.	Which one of the following describes the sequence of phases of a project management life cycle?
11.	In which phase of the project management life cycle, most of the project funding is spent?
12.	Which one of the following is not included in a project scope document?
13.	_____ document identifies the project tasks, schedule for the project task and assigns project resources.
14.	_____ involves completing the release of all the required deliverables to the customer along with the necessary documentation.
15.	What do you mean by in-house projects?

16.	Who will set the objectives of projects in large organization?
17.	Objectives of a project should be SMART. Here M stands for _____.
18.	During Management of project, Innovatings means _____.
19.	Traditional Project Management involves _____.
20.	What do you mean by Internal rate of return?
21.	The _____ explains the new capability that the organization will have.
22.	During Management of project, Staffing means _____.
23.	In W5HH Principle, first H stands for _____.
24.	In Project Management Life Cycle, Project Execution means _____.
25.	CBA in Project Management stands for _____.
26.	Modify objectives in the light of stakeholder analysis means _____.
27.	Which is the Characteristic of projects?
28.	The three elements of Project portfolio management are _____.
29.	What is the formula to calculate Return on investment (ROI)?
30.	Discount factor is calculated using the formula _____.
Unit 2	
31.	Which one of the following phases accounts for the maximum efforts during the development of typical software?
32.	Which one of the following feedback paths is present in an iterative waterfall model?
33.	RAD stands for _____.

34.	Which one of the following phases performs validation after coding during the development of a software?
35.	Which one of the following feedback paths is absent in an iterative waterfall model?
36.	SDLC stands for _____.
37.	Which model can be selected if user is involved in all the phases of SDLC?
38.	Selection of a model is based on _____.
39.	Which two models allow defining requirements early in the cycle?
40.	Which of the following life cycle model can be chosen if the development team has less experience on similar projects?
41.	If you were a lead developer of a software company and you are asked to submit a project/product within a stipulated time-frame with no cost barriers, which model would you select?
42.	Which one of the following is Evolutionary Process Model?
43.	Using COCOMO estimation model, which one of the following can be estimated?
44.	Effort is measured using which one of the following units?
45.	Which one of the following is the correct order in which a software project manager estimates various project parameters while using COCOMO?
46.	Which one of the following is not a factor for 'Lines of code' being considered a poor software size metric?
47.	Suppose you are a project manager and your team has eight members including yourself. How many communication channels exist in your team?
48.	According to COCOMO, the major productivity drivers include: _____ required reliability, database size, product complexity.
49.	According to COCOMO, the major productivity drivers include _____ : analyst capability, application experience, VM experience, programming language experience
50.	_____ includes the parameters like modern programming practices, software tools, and schedule constraints.
51.	According to COCOMO, the major productivity drivers include _____ : execution time constraints, storage
52.	constraints, virtual machine (VM) volatility.
53.	The formula for Scale Factor is _____.
54.	Which of the following is not Scale factor efforts multiplier?

55.	As per Capers Jones Rule 1: SLOC-function point equivalence: One function point = _____ SLOC for C programs.
56.	As per Capers Jones , Rule 2: Project duration estimation: Function points raised to the power _____ predicts the approximate development time in calendar months.
57.	As per the Capers Jones Rule 4: Each software review, inspection, or test step will find and remove 30% of the bugs that are present is termed as _____.
58.	COCOMO Basic model is _____ = c x size ^k
59.	Size is measured in 'kloc' ie. _____.
60.	_____ estimation techniques is used when no past project data is available.
61.	Which one of the following is not the estimating method?
Unit 3	
62.	PERT stands for _____.
63.	CPM stands for _____.
64.	Which of the following is not the objective of Activity Planning?
65.	Which is the correct statement for activity Planning?
66.	Which of the following stage is not required for schedule creation?
67.	Which of the following is not related to Network Planning Methods?
68.	Which of the following is correct about Critical Path in CPM?
69.	Critical Path is the path where _____.
70.	What can be done to shorten Project Duration?
71.	Which is most useful to decompose the project activities into smaller tasks that are more meaningful?
72.	In which of the following situations a Dummy activity required in PERT Chart?
73.	PERT method differs from CPM in which one of the following aspects?
74.	Which of the following is true of a critical path in PERT chart?
75.	_____ includes not just salary, but also social security contributions by the employer, holiday pay and other incentives.
76.	A resource in project does not include _____.

77.	_____ happens where same resource needed in more than one place at the same time.
78.	Monte Carlo Simulation is an alternative for _____
79.	_____ estimates are not produced for each activity.
80.	The _____ approaches try to anticipate the possible risks that the project is susceptible to.
81.	In which approach of identifying activities, list the deliverable and intermediate products of project i.e. product breakdown structure (PBS) is created?
82.	_____ is a technique to move forward through network diagram to determining project duration and finding the critical path or Free Float of the project.
83.	Based on Lyytinen's sociotechnical model of risk, _____ relate to all those involved in the project including both developers, users and managers.
84.	Based on Lyytinen's sociotechnical model of risk, which one is categorized as task risk?
85.	The _____ approach to Risk Management takes no action until an unfavourable event occurs.
86.	_____ represents moving backward to the end result to calculate late start or to find if there is any slack in the activity.
87.	_____ is a method of Risk identification where risk is identified based on the experience of past projects.
88.	Which Risk Reduction technique can be applied for reducing the risk of "Developing the wrong software functions".
89.	A flood would cause Rs. 0.5 millions of damage. Probability of occurrence 0.01. What is the Risk Exposure? Risk exposure (RE) = (potential damage) x (probability of occurrence)
90.	Which method of Risk Planning deals with Risk Reduction?
91.	_____ is the additional time needed to ensure that there is 95% chance of completing the project as per Monte Carlo Analysis.
Unit 4	
92.	A motivation of individuals varies, _____, an American psychologist, suggested hierarchy of needs.
93.	In recruitment process, CV stands for _____.
94.	Which one of the following services to be provided to customer?
95.	Which one of the following is the disadvantage of the time and material contract?
96.	Which one of the following is the advantage of fixed price contracts?
97.	_____ Contract case, there are bids only from suppliers who have been invited by the customer.

98.	Which one of the following would equal EV/PV?
99.	_____ Contract case, any supplier can bid to supply the goods and services.
100.	Which one of the following is example of Oral formal regular report category?
101.	Which one of the following is example of Written formal regular report category?
102.	Which one of the following is example of Written formal adhoc report category?
103.	From the manager's perspective, _____ of work product is an important mechanism for monitoring the progress of a project and ensuring the quality of the work products.
104.	In _____ data collection process, only those that are agreed to by the author are logged.
105.	Each reviewer prepares _____ in which the different items recorded by the reviewer are the data about defects, their locations, their criticality and the total time spent in doing the review of the work product.
106.	Which one of the following chart is indicating scheduled activity dates and duration, frequently augmented with activity floats. Reported progress is recorded on the chart and a 'today cursor' provides an immediate visual indication of the schedule?
107.	The total value credited to a project an any point is known as _____.
108.	The assigned value is the original budgeted cost for the item and is known as _____.
109.	The schedule variance is measured in the cost in terms as _____ and indicates the degree to which the value of completed work differs from that planned.
110.	The difference between the time when the achievement of the current earned value was planned to occur and the time now is known as _____
111.	_____ is calculated as $EV - AC$ and indicates the difference between the earned value or budgeted cost and the actual cost of completed work.
112.	Calculate Performance ratio of Cost performance index with the help of CPI formula when earned value is 35000 and actual cost is 70000.
113.	Calculate Performance ratio of schedule performance index with the help of CPI formula when earned value is 35000 and planned value is 40000.
114.	One or more developers are authorized to make copies of components to be modified. There would be some individual or group who represented the major stakeholders, both users and developers and also the project sponsor, who would have the authority to prioritize the RFCs for action.
115.	_____ is concerned with tracking and controlling changes to a software. Development and maintenance environment: Various work products associated with the software continually change. Unless a proper configuration management system is deployed, several problems can appear.
116.	A _____ is a software configuration that has been formally reviewed and agreed upon and serves as a basis for further development.

117.	A _____ system is a numbering scheme that is used to identify the state of configuration item of any system.
118.	_____ are versions that are intended to coexist. Different variants may be needed to run the software on different operating systems or on different hardware platforms.
119.	_____ and colleagues identified three influences on motivation are Expectancy, Instrumentality, Perceived value of the reward
120.	Which one is a not a factor in job satisfaction according to Oldham-Hackman job characteristics model?
121.	Which one of the following is a 'hygiene factor' under Herzberg's Motivation-Hygiene Theory?
Unit 5	
122.	Which one of the following types of team organization would be most suitable for a small yet complex project?
123.	In which one of the following types of organization is team building likely to be most difficult?
124.	Which one of the following is a practical use of reliability growth modelling?
125.	Which one of the following can be considered to be a software defect?
126.	Which of the following is true for formal review?
127.	Which of the following is the basic focus of the modern quality assurance paradigms?
128.	Which of the following ISO quality assurance standard applies to software development organizations?
129.	A software organization has been assessed at SEI CMM level 4. Which one of the following does the organization need to set up, as one of the KPA's to achieve Level 5?
130.	Which one of the following can be considered as the focus of quality control?
131.	After software is maintained, which one of the following types of testing involves repeating execution of tests that were already performed to ensure that the code modification that were done during maintenance have not introduced faults into previously operational software?
132.	_____ Survey begins when an individual or organization is challenged with a business problem and the existing data is inadequate data.
133.	Project closing does not involve _____.
134.	Project termination can happen due to _____
135.	_____ is the key idea to avoid developers building perhaps crudely coded software components.
136.	_____ means insert (or leave) known bugs in code.

137.	In which stage of Team development, conflicts are largely settled and a feeling of group identity emerges.
138.	In _____ stage of Team development, the members of the group get to know one another and try to set up some ground rules about behaviour.
139.	In Management Team Roles, _____ is good at evaluating ideas.
140.	_____ in a team is a good team player who is willing to undertake less attractive tasks if they are needed for team success.
141.	In _____ the effort of each participant is summed during Group performance.
142.	_____ is an attempt to promote Team heedfulness, where group members are aware of the activities of other members that contribute to overall group success.
143.	_____ is the ability to influence others in a group to act in a particular way to achieve group goals.
144.	_____ encourages programmers to read each other's code and give suggestions.
145.	_____ is a personal power where the holder can carry out specialist tasks that are in demand.
146.	_____ are things that are produced during the project, but which are not usually handed to the client at the end.
147.	_____ specifies the quality perspective and the relationships between quality characteristics, sub-characteristics and associated attributes of an entity.
148.	A _____ organization attempts to combine the benefits of centralized and decentralized control, while minimizing or avoiding their disadvantages.
149.	What are the requirements of Virtual Projects?
150.	What are the disadvantages of Virtual Projects?
151.	What is the sub-characteristics of usability?

Internet of Things

1	What is different between ubiquitous computing and IoT?
2	The term Internet of Things was created by _____
3	The term "Enchanted Objects" was coined by _____
4	The term "Ubiquitous Computing" was coined by _____
5	_____ writes online component for the prototype
6	Systems which don't vie for attention yet are ready to provide utility or useful information when we decide to give them some attention is called as _____.
7	"Technology advances sneak up on us over time, hidden in plain sight" is called as _____
8	The most common use of cryptographic hashes is for _____
9	Some random, non-secret extra text that is added to the password before the hash is computed is called as _____
10	The most common use of cryptographic hashes is for _____

11	Some random, non-secret extra text that is added to the password before the hash is computed is called as
12	Technique that aims to provide a fully featured experience if the client is capable of it but then falling back to a less feature-rich experience on less capable clients is called
13	Ubiquitous Computing means
14	_____ is an access channel for computers to exchange information
15	Transport Layer divides the data into
16	Using TCP or UDP depends upon the
17	How many software ports are there in a system?
18	Re-transmission of data that is lost/corrupted/expired is done by _____
19	Port used for SMTP is
20	The length of MAC address, IPv4 address, and IPv6 address is ___ bits, ___ bits and ___ bits
21	IP addresses using IPv4 has addresses of
22	IP addresses using IPv6 has addresses of
23	MAC addresses has
24	In IPv4 addressing, out of 5 classes how many can we use?
25	How many ports are there in a system?
26	Network layer divides the data into _____.
27	Re-transmission of data that is lost/expired/corrupted is done in _____ layer.
28	Re-transmission of data that is lost/expired/corrupted is done by _____ protocol.
29	_____ protocol is useful for streaming data, VOIP, DNS and DHCP
30	Domain Name System (DNS) converts
31	IPv6 addresses are usually displayed in
32	HTTPS stands for _____
33	Which application layer protocol is used for sending emails?
34	Which application layer protocol is used for assigning IP addresses? Immersive Reader
35	Which of the following statement/s is true about Sketching
36	Knowledge about tools and techniques for creation, designing and development is called
37	Digital fabrication tools allows to _____ each device in some way
38	In terms of ease of prototyping, _____ with platform is attractive
39	Arrange in the order from the low cost solution to high cost solution for creating a prototype
40	BeagleBone Black was created with the aim of facilitating
41	Extension Boards for BeagleBone Black are called as
42	Online Cloud9 environment allows development in
43	Linux based Operating System used in BeagleBone Black is
44	Shape of an Electric Imp is like a
45	Squirrel is
46	Which of the following statement/s is true about the planner
47	Which of the following is not considered when deciding to build IoT?
48	Is internet/networking required when building an IoT prototype?
49	What programming language is preferred on an Arduino?
50	_____ is used to receive data from outside world for processing.
51	Piezzo elements can be used for
52	Why does Raspberry Pi have a better CPU as compared with an Arduino?
53	Raspberry Pi has _____ USB connections
54	Default development language on Raspberry Pi is _____
55	Can Raspberry Pi be used as a general purpose computer?

56	Debugging code on Raspberry Pi is easier
57	The device which converts energy from one form to another is known as :
58	Which type of ROM has to be custom built by the factory?
59	In cyclic redundancy checking, what is the CRC?
60	Microcontroller 8051 follows _____ architecture
61	Arduino has _____ USB connections
62	Add-on boards in Arduino is called as Immersive Reader
63	Android device offers _____, and Arduino offers _____
64	When we connect Android device with Arduino, _____ becomes the host
65	Plug Computing is the circuitry within the
66	_____ is an enterprise class penetration testing drop box
67	_____ runs a Debian distribution tailored for its ARM chip
68	What method of 3D printing uses a laser to harden liquid plastic layer by layer
69	What does SLS stand for?
70	Which method of 3D printing melts a plastic filament and builds the object on a plate layer by layer?
71	What does CAD stand for?
72	What does SLA stand for?
73	Which method of 3D printing uses a laser to melt a thin layer of plastic powder together?
74	What kind of process is 3D printing ?
75	Which of the following is a free app that you can use to create files for 3D printing?
76	A preliminary model of something from which other forms are developed or copied is called a:
77	The first step of 3D printing is
78	3D printers will print in layers from _____
79	The action or process of making a physical object from a three-dimensional digital model, typically by laying down many thin layers of a material in succession.
80	To press or push out one object from another object.
81	A slender threadlike material that is heated in a 3D printer in order to create an object.
82	CNC milling is a ____ process.
83	Which of the following axis of movement is not supported by CNC milling?
84	This part of the printer is where the melted filament is extruded onto and your object takes shape.
85	This part of the printer is what actually gets hot and from where the filament extrudes
86	_____ method builds up the model by laminating many individual sheets of paper together.
87	In which 3d printing method, the binder is more like a glue which is dispensed by a print head .
88	LOM stands for _____
89	Which of the following is not a non-digital method of prototype design.
90	Which of the following feature helps to select a laser cutter for prototype design.
91	The width of the cut made by the laser is called _____
92	Milling is the process of _____ material in different angles.
93	Which of the following is not a type HINGES AND JOINTS used for prototyping in IOT?
94	Which of the following is not a laser sintering process?
95	What does the three R's of recycling mean?
96	Instead of throwing out old clothes and towels, Julia cuts the items up and uses them as cleaning rags. This is an example of which of the following ?
97	Renee has started to compost her food scraps and leaves/yard trimmings. When it all breaks down into soil, she'll use that for her garden. This is an example of ____
98	OS activates special reserved memory called _____ memory, when system runs out of memory.
99	ROM is _____

100	_____ is semi permanent type of memory
101	EEPROM consist of _____ cells
102	Flash memory consistes of _____ cells
103	_____ is volatile in nature
104	LIFO stands for _____
105	In stack memory, _____ variable is always pushed first
106	Memory available in heap memory are in _____
107	Values does not change in _____ variable.
108	LWIP is _____
109	uClibc is version of the standard _____ library
110	_____ is a light weight real-time scheduler in embedded systems
111	_____ is a collection of a host of UNIX utilities into a single small executable and a common and useful package.
112	_____ allows to set breakpoints
113	_____ enables you to see what is happening at the network level
114	Fast-food franchising began in the year _____
115	Tim Berners-Lee's first demonstration of the World Wide Web in _____
116	One of the most popular templates for working on a business model is the _____
117	_____ is a Creative Commons–licensed single-page planner.
118	One of the most popular templates for working on a business model is the Business Model Canvas by _____.
119	_____ are the people you plan to deliver the product to.
120	Customer Relationships might involve a lasting communication between the company and its most passionate customers via _____.
121	_____ are ways of reaching the customer segments.
122	_____ are the things that need to be done.
123	_____ include the raw materials that you need to create the product but also the people who will help build it.
124	_____ requires you to put a price on the resources and activities you just defined.
125	_____ is also useful if you want to get other people involved.
126	_____ allows you to know the customers interest in your product.
127	Tweaks are known as _____.
128	_____ gives a meaning and context to each item.
129	The _____ needs to be manufactured.
130	The _____ needs to be written.
131	MakieLab make _____ that can be designed online.
132	Before any official funding round comes the informal idea of the friends, family, and _____ (FFF) round.
133	The first step towards selling your idea as a IOT product is to provide it as _____ .
134	Which process combines component placement and routing to define electrical connectivity on a manufactured board?
135	Which possibility is the highest contributor to cost overhead for manufacturing facilities?
136	In which view you layout the component logically and make the necessary connection without having to worry about exactly where they will sit in Physical space.
137	What are the two views for creating designing process?
138	Which process involves printing out the design from your PCB design software onto a stencil?
139	Which possibility is based on combination of materials and information flow during the time of manufacturing?
140	In which process do we remove areas of copper from a sheet of printed circuit board material.

141	The simplest moulds are called _____ and consist of the mould split into two halves.
142	Electromagnetic interference is the _____ generated by the changing electrical currents in circuitry.
143	Copying software from a development machine to where it will be run from in production is typically known as _____.
144	The _____ in the device, however, is particularly important to test, as that is the hardest to update once the product has been sent out to the users.
145	Bi-directional communication to things can lead to features that interact to the concept of
146	There is value in making _____ public
147	The project should be designed to be _____.
148	To enable the _____ to remain useful at the end of its working life.
149	Consider environmental factors, such as _____ produced during normal operation or during disposal of the object.
150	REMs stands for _____.
151	Shipping the raw material from mine to refinery to manufacturer has its own _____
152	Feature of modern Internet life is _____, from knowledge to funding projects to work.
153	Becoming dispersible means _____ throughout the community.
154	In the digital world, moving data rather than physical objects is faster, is safer, and has a lower _____ cost.

Advanced Web Programming

Unit 1	
1.	CLR stands for _____.
2.	.NET Assembly's Metadata is stored in which file?
3.	_____ are a logical way to group classes.
4.	_____ method parameters are used to pass results back to the calling method.
5.	_____ creates an object by copying variables from another object.
6.	IL in .NET stands for _____
7.	What is boxing in .NET?
8.	The methods that have the same name, but different parameter lists, and different definitions is called _____.
9.	_____ parameters allow you to give default value to method parameters.
10.	C# provides special methods known as _____ methods to provide access to data members.
11.	_____ defines a set of rules that enable interoperability on the dotnet platform.
12.	In C# you can use _____ statement to evaluate a single variable or expression for multiple possible values.
13.	_____ loop is particularly useful for traversing the data in collections and arrays.
14.	Which of the following defines a set of integer constants with descriptive names? a. Delegate b. Enumeration c. Event d. Properties
15.	_____ divides a string into an array of substrings delimited by a specific substring.
16.	_____ is a function pointer that allows you to invoke a procedure indirectly.
17.	Which of the following type of class member can be accessed by members in the current application and by the members in any class that inherits from this class? a. Protected internal b. protected c. internal d. public
18.	You can use _____ class members without creating an object first.
19.	_____ provide notification that something has happened.
20.	Which of the following allow you to create classes that are parameterized by type? a. ArrayList b. Partial Classes c. Generics d. List Class
21.	Which of the following gives the ability to split a single class into more than one C# source code (.cs) file?

	a. Partial Classes b. Generics c. List Class d. ArrayList
22.	Properties that do nothing except set or get the value of a private member variable are called _____.
23.	Which of the following operator supports any type of object and always allows dynamic resizing? a. ArrayList b. List c. String d. Array
24.	DLL stands for _____.
25.	Which of the following operator returns the address of a variable in C#? a. Sizeof b. typeof c. & d. *
26.	Which one of the following is a non-instantiable class which is either partially implemented, or not at all implemented? a. Static class b. sealed class c. partial class d. abstract class
27.	We can use _____ to implement multiple inheritance in C#.
28.	The IL code is then converted into native machine code by _____.
29.	Which of the following method inserts a string at a specified index position? a. Indexof() b. insert() c. LastIndexof() d. put()
30.	Which of the following is a static property of DateTime Class? a. AddDays() b. AddMonths() c. Now() d. ToString()
Unit 2	
31.	_____ is a group of related constants, each of which is given a descriptive name.
32.	Web control classes are defined in the _____ namespace.
33.	Some list controls can allow multiple selections, provided you have set the _____ property to the value Multiple.
34.	In _____ control Validation succeeds if the input control contains a value that matches the value in another input control, or a fixed value that you specify.
35.	Which property is used to force a control to post back the page immediately when it detects a specific user action? a.PostBack b. Render c. DayRender d. AutoPostBack
36.	The .ascx file for a user control begins with which directive?
37.	To Insert a page into the site map, you add the _____ element with some basic information.
38.	In MultiView Control you can set the ActiveViewIndex property to _____, to show the second view.
39.	How do we identify that the page is Postback?
40.	Which of the following is not an ASP.NET page event? a. Init b. load c. import d. export
41.	HTML control runs at _____ side.
42.	ASP.Net controls run at _____ side.
43.	The <appSettings> element of the web.config file is nested in the root _____ element.
44.	Every ASP.NET application is executed inside a separate _____ domain
45.	Which file is used to handle application events? a. .aspx b. .css c. .ascx d. global.asax
46.	User can store their own settings in the web.config file, in an element called _____.
47.	Which elements are known as complex user elements? a. Calendar b. ListBox c. Rich Controls d. Validation Controls
48.	A web server control tag always starts with _____ prefix.
49.	_____ are used heavily in the .NET class library to group a set of related constants.
50.	_____ control is a server-side equivalent of the HTML and elements.
51.	Which of the following is not a property of BulletedList Control? a. BulletStyle b. SelectionMode c. DisplayMode d. BulletImageUrl
52.	Which of the following is the property of Range Validator control? a. MaximumValue b. ValueToCompare c. ControlToCompare d. ValidationExpression
53.	Which of the following is not a member/property for Calendar Style? a. DayStyle b. TodayStyle c. WeekendDayStyle d. TitleStyle
54.	Which of the file extension is used by User Control? a. .aspx b. .cs c. .asax d. .ascx

55.	Which of the following Advertisement File Elements is the number that sets how often an advertisement will appear? Keyword b. NavigateUrl c. Impressions d. AlternateText
56.	Which of the following validator control ensures that the value of an input control matches a specified pattern? CompareValidator b. CustomValidator c. RangeValidator d. RegularExpressionValidator
57.	Which of the following TreeView Property Lets you specify how many levels of nodes will be visible at first? MaxDataBindDepth b. ExpandDepth c. ShowExpandCollapse d. NodeWrap
58.	_____ property displays a text message when the user hovers the mouse above the control.
59.	Which of the following Web control provide CheckedChanged event? RadioButton b. Button c. TextBox d. ListBox
60.	Which of the following is the last event of ASP.NET page life cycle? Load b. init c. unload d. PreRender
Unit 3	
61.	Exception handlers allows you to react to _____ errors .
62.	Custom exception classes should always inherit from _____,
63.	Which of the following method of built-in Trace object can be used to write a custom trace message in red lettering? TraceWrite() b. Trace.Warn() c. Trace.Alert() d. Trace.Warning()
64.	Which of the following can be used to turn on tracing in the Page.Load event handler? Trace="true"; b. Trace.IsEnabled=true; c. Trace.TraceMode=true; d. TraceMode=true;
65.	The code in the _____ block will be executed when an error is detected.
66.	The _____ code will execute even if an error has occurred.
67.	Which of the following is NOT a valid DOT NET Exception class? System.Exception b. System.DivideByZeroException c. System.OutOfMemoryException d. System.StackMemoryException
68.	Which one of the following is not a valid state management technique? ViewState b. Application State c. Query State d. Session State
69.	Which of the following is not a type of cookie? Dummy Cookie b. Persistent Cookie c. Session Cookie d. Non – Persistent Cookie
70.	Which object in ASP.NET provides a global storage mechanism for state data that needs to be accessible to all pages in a given Web application? Session b. ViewState c. Application d. Querystring
71.	Which file is used to write the code to respond to the Application_Start event? Web.config b. global.asax c. default.aspx d. sitemap.xml
72.	How will you store and retrieve value in viewstate?
73.	When a User's Session times out which event should you respond to?
74.	Which of the following is a server-side state management technique? QueryString b. Application State c. ViewState d. Session State
75.	What type of data can Cookies store?
76.	In Query String, multiple query strings can be specified in the URL by separating them _____
77.	Which session modes stores session Information in Current Application Domain?
78.	Which of the following transfer the execution directly to another page? Response.Redirect b. Request.QueryString c. HttpRequest d. Server.Transfer
79.	_____ is rendered to the client browser, so it is not suitable for storing security-sensitive values
80.	Which object data is included in e-mailed URLs ?
81.	When we apply skin to ASP.net control, then which of the following code is correct ? a. <asp:Label ID ="Label1" runat="server" Text="Enter Name:"></asp:Label> b. <asp:Label ID ="Label1" runat="server" Text="Enter Name:" SkinID= "lbl"></asp:Label> c. <asp:Label ID ="Label1" Text="Enter Name:" SkinID="lbl"></asp:Label> d. <asp:Label runat="server" Text="Enter Name:" SkinID= "lbl"></asp:Label>
82.	When you add a theme folder, what will be the name of that folder ?
83.	Which of the following is true statement for differentiate Theme and CSS ? a. Theme works with skin not with css files b. In theme we have to write more code compare to CSS c. Theme is control based well as CSS is not d. In theme we have to write less code compare to CSS

	Which of the following is not true about Master page? a. Master page can be nested. b. You can add more than one master page in a website. c. You can add as many ContentPlaceHolders to a Master Page as you need.
84.	A Master Page enables you to control the appearance of the content
85.	Which control is required inside a content page to reference ContentPlaceHolder control inside the master page?
86.	Master page has _____ extension.
87.	_____ property returns the MasterPage object associated with this page.
88.	Which HTML tag is used to define an internal style sheet?
	Which is the correct CSS syntax? a. body:color=black; b. body {color: black;} c. {body:color=black;} 89. {body:color:black};
90.	Which type of stylesheet can change the style of an element in the entire website?
Unit 4	
91.	Choose the incorrect option about DataReader object
92.	What are the three main objects when working with a DataSet?
93.	Which Data Provider gives the maximum performance when connect to SQL Server?
94.	In which file you should write the connection string, so you can access it in all the web page for same application?
95.	The GridView control in ASP.NET has which of the following features
96.	How do we Delete, Update, Select data in a Dataset
97.	To use the .NET Framework Data Provider for SQL Server, an application must reference the _____ namespace.
98.	Syntax for closing and opening the connection in ADO.net is
99.	_____ object is used to fill a DataSet/DataTable with query results in ADO.net.
100.	A database table that contains information about the students in a college probably uses the _____ as the key field
101.	Each row in a database table represents a _____.
	Choose the correct option about DataSet object a. Provides Disconnected mode b. DataSet does not allow one to navigate through the data c. You want a temporary data saving option 102. Cannot reserve data for future use
103.	Which is not SQL aggregate function? Avg b. sum c. mul d. count
104.	open() and close() are methods of _____ class.
105.	ExecuteReader() is a method of _____ class.
106.	In disconnected data access model _____ is used to keep copy of data in memory.
107.	Which SqlCommand execution returns the value of the first column of the first row from a table?
	Which CommandType value is incorrect? a. StoredProcedure b. TableDirect c. TableSchema 108. Text
	How will you create the SQL Server Connection Objects in Code? Choose the correct option. a. SqlConnection con = new SqlConnection ("Data Source=ServerName; Initial Catalog=DatabaseName;Integrated Security=True"); b. SqlConnection con = new SqlConnection(); c. using (SqlConnection con = new SqlConnection()) 109. SqlConnection con;
110.	What are the minimum attribute is required to create a connection string using SqlConnection object?
111.	What are the steps to create a DataTable programmatically?
112.	Which of the following denote New Data-bound Controls used with ASP.NET? GridView b. PageView c. FileView d. DataView

113.	Which control supports paging?
114.	Which method do you invoke on the DataAdapter control to load your generated dataset with data?
	What is the advantage of Disconnected mode of ADO.Net in ASP.Net? a. Automatically dump data at client PC b. Not necessary to connect with server c. user data can update and retrieve in dataset and when connection connected, update values with server
115.	It cannot allow data to be modified
	In your ASP.NET web application you want to display a list of clients on a Web page. The client list displays 10 clients at a time, and you require the ability to edit the clients. Which Web control is the best choice for this scenario?
116.	DetailsView b. Table c. GridView d. FormView
117.	Which Control supports repeated-value data binding if it provides a property?
	Which of these data source controls do not implement Caching? a. LinqDataSource b. ObjectDataSource c. SqlDataSource
118.	XmlDataSource
119.	Which of the following is not a SQL command type? DDL b. DML c. DCL d. SLT
120.	Which among the following is not supported by Visual Studio? ODBC b. JDBC c. ADO.NET d. OLEDB
Unit 5	
121.	What is the fullform of AJAX?
122.	_____ is the default authentication type provided for Asp.Net.
123.	Where do you set authentication mode in ASP.Net application?
124.	Which control can be used to update only the portion of the page?
125.	How many 'ScriptManager' control can be added on a ASP.NET web page?
	Which of the following is true? 1. AJAX is a platform-independent technology 2. AJAX can work with web application 3. AJAX can only work with ASP.NET 4. AJAX is a platform-dependent technology
126.	
127.	Which control is required for every page that have AJAX Extensions for ASP.NET?
128.	What is the default authentication mode for IIS?
129.	Forms based authentication is otherwise called in ASP.NET as _____.
130.	Where do we include the user lists for windows authentication?
	How many types of authentication ASP.NET supports? 1. Network Authentication 2. Windows Authentication 3. .NET Passport Authentication 4. Forms Authentication
131.	
	Which amongst the following controls do not belong to AJAX? a. AutoCompleteExtender b. UpdateProgress c. Timer Control
132.	AdRotator
	Which of the following statements are not true for XML? a. XML elements are composed of a start tag and an end tag b. Whitespace between XML elements is ignored. c. XML elements are not case sensitive
133.	All XML elements must be nested in a root element.
134.	Any XML must have:
135.	The need of using a DTD in developing XML document is _____
136.	What is meant by “Well - formed XML document”?
	Which of the following statements are true? a. Can be used to comment an XML line b. XML elements names can contain spaces
137.	

	c. XML element names cannot start with a number XML element starts with an underscore
138.	In XML, what is identified by a URI reference?
139.	In ASP.NET the < authorization > section contain which of the following elements? <deny> b. <allow> c. <identity> d. <authenticate>
140.	ContentTemplate is a property of _____.
141.	Triggers collection contains _____.
142.	The event in AJAX triggers _____.
143.	How to implement authentication via web.config?
144.	Time in milliseconds that the control has to wait before it displays its content is given by _____.
145.	ProgressBar has asp control name as _____.
146.	Which class can be used to create an XML document from scratch?
147.	The most popular way to materialize XML document is to use _____.
148.	XML Schemas consist of _____.
149.	The XML component that defines the structure of a document is _____.
150.	What is not true about XSLT? a. it is a declarative transformation language b. it uses a set of rules that govern how a document is to be materialized is created c. it uses a set of procedures that specify how a document is to be programmed it is used to transform the input document into another document

Enterprise Java

1	Java EE, the Java Enterprise Edition, is _____.
2	Container services are configured via _____.
3	Which of the following is NOT true?
4	Which elements is not part of the Java EE specification?
5	Java EE profiles _____
6	The best way to access a database from a standard Java EE application is _____
7	Which quote illustrates best the support of web services in Java EE: -
8	The use of a relational database in a Java EE environment is supported best by _____.
9	Security in Java EE _____.
10	Which pattern is NOT defined as a Java EE pattern (or Java EE blueprint)
12	The life cycle of a servlet is managed by
13	In which folder we can put web.xml?
14	Where we can put jar file?
15	Which life-cycle method make reddy the servlet for garbage collection?
16	Which method is used to send the same request and response objects to another servlet in RequestDispatcher ?
17	Which object is used to forward the request processing from one servlet to another?
18	What are methods of request dispatcher?

19	_____ object contains request of client and transfer control to another web components.
20	Which package is provided by Servlet API to work with cookies.
21	_____ does not wait for the data to be read or write before returning.
22	Non blocking IO is _____ oriented
23	A stream can be used for _____ data transfer.
24	A channel provides a _____ data transfer facility.
25	A ServletInputStream Interface consist of _____ methods
26	onDataAvailable () and onAllDataRead methods are consist of _____
27	onWritePossible() method is consist of _____
28	_____ are available for Non-blocking I/O operation
29	Which of the following code is used to get an attribute in a HTTP Session object in servlets?
30	Which method is used to specify before any lines that uses the PrintWriter?
31	Which page directive should be used in JSP to generate a PDF page?
32	Which of the following are the valid scopes in JSP?
33	Which of the following is not a jsp directive?
34	Which one is the correct order of phases in JSP life cycle?
35	Which tag should be used to include other jsp content to current JSP?
36	Which tag is used to execute java source code in JSP?
37	Which tag is used to declare variables as well as methods?
38	Which is not a directive?
39	Which attribute defines the MIME type of the HTTP response?
40	When a container loads a JSP it invokes which method before servicing any requests?
41	The recommended file extension for the source file of a JSP page is ?
42	What is the full form of JSTL
43	Which of the type of Java conditional statement is the <c:choose> tag similar to?
44	Which of these represent the correct path for the core JSTL library in JSTL version 1.1? Select the one correct answer.
45	Prefix of function tag library begins with?
46	Which is the method for Message Driven Beans?
47	Which session bean maintain their state between client invocations but are not required to maintain their state across server crashes or shutdowns?
48	Which EJB container must provide an implementation of Java Naming and Directory Interface (JNDI) API to provide naming services for EJB clients and components?
49	What represents a persistent global data from the database?

50	How many types of session beans are available in EJB?
51	What is JNDI?
52	Which of the following EJB has no state? i. Message-Driven Bean. ii. BMP Entity Bean. iii. Stateless Session Bean. iv. Stateful Session Bean.
53	What is the purpose of JNDI?
54	. _____ acts as an abstract layer between user and shared resources on a network.
55	Abbreviate the term JMS
56	_____ is mainly used to send and receive message from one application to another.
57	Which middleware services are provided by EJB?
58	which of the following names in this namespace are shared by all the applications in the server?
59	Which of the following is not the componet of EJB Server?
60	What is the full form of JAR?
61	Which one of the following best illustrates the concept of Object Persistence.
62	Which of the following is not a correct explanation of JDO.
63	Which of the following is not a correct explanation of JDO?
64	What is ORM?
65	Which method is used to remove a persistent instance from the datastore.
66	Which tool provides a set of persistent annotations to define mapping metadata.
67	Which of the following simplifies Object Relational Mapping tool.
68	The problem which arises because of the difference between model of programming language and model of database is classified as.
69	Which one is the simple java class that represents a row in a database table.
70	All entities used in database while implementing JPA must have_____.
71	Which keyword makes possible to filter results after every join, leading to smaller results after each successive join.
72	Which annotation is used to link two tables through a relation table?
73	Which API is used to define queries for entities and their persistent state by creating query-defining objects
74	What is hibernate?
75	Which method is used to update the state of the given instance from the underlying database?

New Generation Technologies

Unit 1	
1.	What are the three V's of Big data?
2.	Which one of the following is a Big Data Challenge?

3.	Which one of the following property best describes MongoDB?
4.	What does NoSQL stand for?
5.	_____ implies either all changes of a transaction are applied completely or not applied at all.
6.	What are the 3 NOSQL database properties?
7.	Which property indicates that the transactions applied to the same set of data are independent of each other?
8.	_____ means the changes are permanent in the system and will not be lost in case of any failures.
9.	_____ indicates that even if no input is provided to the system, it will change its state in accordance to eventual consistency.
10.	What does P in CAP Theorem mean?
11.	Dynamic schema in MongoDB makes _____ easier for applications.
12.	Which one of the following is a disadvantage of NoSQL Databases?
13.	Which one of the following is a NoSQL database?
14.	Which of the following is not valid for NoSQL?
15.	What is the aim of NoSQL?
16.	In BASE properties what does S stand for?
17.	What does Eventual Consistency mean?
18.	MongoDB provides which of the following properties?
19.	Which of the following database guarantees Availability and Partition Tolerance?
20.	SQL provides which of the following properties?
21.	In which format Redis database stores data?
22.	Which databases guarantee Availability and Partition Tolerance?
23.	Which of the following is an advantage of NoSQL Database?
24.	Which one of the following challenge faced by organizations when managing big data using legacy systems?
25.	Non-Relational databases possesses _____ properties.
26.	Which of the following format is supported by MongoDB?
27.	MongoDB is a _____ database that provides high performance, high availability, and easy scalability.
28.	In MarkLogic Database _____ is used to store data.
29.	In Cassandra data is represented as _____.
30.	Which one of the following is not a design philosophy of MongoDB?
Unit 2	
31.	Collection in MONGODB is same as _____ in SQL.
32.	MongoDB stores all documents in _____.
33.	_____ is the default database on Mongo Shell.
34.	Which of the following method returns one document?
35.	Select the correct command to drop current database in MongoDB.

36.	Which of the following is a valid aggregate expression?
37.	Command to start mongo server is_____.
38.	Which command is used to display only three document from the collection?
39.	Key that uniquely identifies each document within a collection is_____
40.	As the capped collection reaches its maximum size, the documents will be removed from it in _____order.
41.	To create a database named student _____command is used.
42.	_____command is used to display list of all the databases.
43.	Which of the following option is correct with respect to sort function?
44.	_____command is used to delete the document.
45.	In MongoDB partitioning of data referred as_____.
46.	Which of the following is not a conditional operator?
47.	Command to display current database is _____.
48.	Command- db.users.find() will display_____.
49.	Which replica set node does not maintain its own data but exists only for voting purpose called?
50.	In MongoDB collections are partitioned by the _____ key.
51.	The_____allows each server to store same data.
52.	Which of the following is a MongoDB core process?
53.	An _____is a capped collection where all the operations that modify the data are recorded.
54.	In which type of collection we can limit the number of document in a collection?
55.	BSON stands for_____.
56.	db.users.find({"Gender":"F"}, {"Name":1,"Age":1}) this query display_____.
57.	How can we display the Mongo query results in easy-to-read attractive format?
58.	Function for creating single index is_____.
59.	_____are the components of sharded cluster
60.	_____ operator is used for updating the documents.
Unit 3	
61.	The _____ feature of collections expires documents after a period of time.
62.	MongoDB using the MMAPv1 storage engine has limits on the number of _____ .
63.	By default GridFS limits chunk size to _____.
64.	In GridFS size limit for document is _____MB.
65.	Which is not a supported index type in MongoDB?
66.	How many indexes are allowed per collection?
67.	In how much time the MongoDB writes are written to the journal?
68.	Which of the following storage engine is supported by default in MongoDB's old version?
69.	All collections have a unique _____ lock that allows multiple clients to modify documents in different collections at the same time.

70.	_____ supports concurrent access by readers and writers to the documents in a collection.
71.	MongoDB uses _____ logging to an on-disk journal.
72.	In a replica set, all write operations gets recorded in a file called_____.
73.	What should be the priority of secondary members to prevent them from becoming primary?
74.	By default, WiredTiger uses prefix compression for all _____.
75.	Which of the following command queries the amount of storage used, the quantity of data contained in the database, object, collection, and index counters?
76.	Which sets also allow the routing of read operations to specific machines?
77.	Which one of the following is correct statement?
78.	Name the collections used by MongoDB to store GridFS data?
79.	Which command is not supported by sharded collection?
80.	Using what can you avoid repetition of data in MongoDB schema?
81.	MongoDB stores times in _____ format.
82.	GridFS uses a _____ index on the chunks collection for the files_id and n fields.
83.	The ____ field contains the sequence number of the chunk.
84.	Which of the following provide acceptable performance levels for multiple mongod instances?
85.	_____is the way of generating snapshot of a running mongod process.
86.	In MongoDB the index name cannot be greater than _____ bytes.
87.	The collection should be sharded before it reaches _____GB.
88.	The .ns file has a special namespace called _____for extents.
89.	_____refers a group of data records within a data file.
90.	By default, WiredTiger uses _____ compression for all collections.

Unit 4

91.	In optical media group which is the latest addition from the following?
92.	Which of the following disks can be recorded only once?
93.	Which is a very thin strip of plastic coated in a magnetic layer?
94.	Which jQuery method is used to switch between adding/removing one or more classes from selected elements?
95.	Which of the following jQuery method get the text content of an element?
96.	Which methods is used to Hide elements?
97.	The process by which a storage disk can be divided into sector is called_____.
98.	Secondary storage is _____type of memory.
99.	Which of the following jQuery methods get the height property of an element?
100.	Which of the following is used for parsing JSON text?
101.	If Redis represents an in-memory variation on the key-value store theme, then Spark represents an in-memory variation on the_____theme.
102.	Which of the following is a DOM manipulation method?
103.	jQuery is a library for _____ scripting.

104.	CDN stands for_____.
105.	Which of the following method is used for binding multiple events to an element?
106.	jQuery is written in which scripting language?
107.	Which of the following is a jQuery selector?
108.	Which method is provided by the jQuery to create our own custom animation with fine-grained control?
109.	The ____ tag is used in implementing external CSS.
110.	Extension of jQuery library file is _____.
111.	_____allows us to run multiple jQuery commands one after the other on the same element.
112.	The .each method is the more convenient form of _____ loop.
113.	Choose the correct syntax for creating plugins in jQuery?
114.	The_____ method is used to perform an asynchronous HTTP request?
115.	jQuery code to set the background color of all span elements to blue is _____.
116.	Which of the following jQuery selector selects elements whose css id is "abc"?
117.	_____method allows fading to a given opacity.
118.	AJAX stand for_____
119.	To select all the elements in the page which symbol do we have to used?
120.	_____method removes all the child nodes and content from the selected elements.
Unit 5	
121.	JSON name/value pair is written as _____.
122.	In the below notation, Student is of _____type { "student": ["Amy", "Bob", "John"] }.
123.	Which of the following is not a JSON type?
124.	Which of these is correct about the JSON standard?
125.	In the given notation, Student is of type { "Student": { "Name": "Amy", "Age": 25 } }.
126.	JSON string have to be in _____.
127.	Which of the following code will throw an error?
128.	Which of the following is fastest javascript parser?
129.	Which of these is a benefit JSON has over XML?
130.	Which of these data interchange formats has seen a decline since usage of JSON?
131.	What kind of format is JSON?
132.	Which of the following is a parameter of stringify() function?
133.	What function will convert a JavaScript object to a JSON string?
134.	In this example, what would be the VALUE of employee.functions[1] ? { "employee" : { "type" : "Director", "functions" : ['sales', 'marketing'] } }
135.	What is the file extension of JSON?
136.	JSON elements are separated by_____.
137.	What is the use of JSONP ?

138.	What two structures is JSON built on?
139.	Which of the following is a valid way to parse JSON string?
140.	JSONP stand for_____.
141.	What is the purpose of method JSON.stringify()?
142.	Identify the JSON array from the given options.
143.	One of the following is not a Token in JSON.
144.	What can be added to the DOM to create a JSONP request?
145.	Which statement about JSON is false?
146.	_____attribute is used to extend the lifetime of a cookie.
147.	What is the JSONStringer used for?
148.	Objects in PHP can be converted into JSON by using the _____PHP function.
149.	JSON objects converted into PHP object using the_____ PHP function.
150.	What is the MIME type of JSON?

Artificial Intelligence

Unit 1	
1.	In an episodic task environment, the agent's experience is divided into _____ episodes.
2.	If the environment can change while an agent is deliberating, then we say the environment is _____ for that agent.
3.	If the environment itself does not change with the passage of time but the agent's performance score does, then we say the environment is _____.
4.	The code repository also includes an _____ for each environment class that selects environments (with certain likelihoods) in which to run the agent.
5.	Agent = Architecture + _____
6.	_____ these agents select actions based on the current percept, ignoring the rest of the percept history.
7.	An agent that uses a _____ is called a model-based agent.
8.	_____ and _____ are the subfields of AI devoted to finding action sequences that achieve the agent's goals.
9.	Because "happy" does not sound very scientific, economists and computer scientists use the term _____ instead.
10.	An agent's _____ is essentially an internalization of the performance measure.
11.	The _____ is responsible for making improvements in the learning agent.
12.	The performance element is responsible for selecting external actions in the learning agent.
13.	The learning element uses feedback from the _____ on how the agent is doing and determines how the performance element should be modified to do better in the future.
14.	In an _____ representation, each state of the world is indivisible—it has no internal structure.
15.	A _____ representation splits up each state into a fixed set of variables or attributes, each of which can have a value.
16.	_____ test was designed to provide a satisfactory operational definition of intelligence.
17.	The interdisciplinary field of _____ brings together computer models from AI and experimental techniques from psychology to construct precise and testable theories of the human mind.
18.	An _____ is just something that acts, operate autonomously, perceive their environment, persist over a prolonged period, adapts to change, and create and pursue goals.
19.	A _____ agent is one that acts to achieve the best outcome or, when there is uncertainty, the best expected outcome.
20.	An alternative to dualism is _____, which holds that the brain's operation according to the laws of physics constitutes the mind.

21.	_____ is the study of the nervous system, particularly the brain.
22.	_____ were based on the undoubtedly correct belief that by making an appropriate series of small mutations to a machine-code program, one can generate a program with good performance for any particular task.
23.	The term _____ is used to refer to the agent's perceptual inputs at any given instant.
24.	An agent's _____ is the complete history of everything the agent has ever perceived.
25.	An agent's behavior is described by the _____ that maps any given percept sequence to an action.
26.	An _____ agent knows the actual outcome of its actions and can act accordingly.
27.	Some _____ agents (or software robots or softbots) exist in rich, unlimited domains.
28.	An environment might be _____ observable because of noisy and inaccurate sensors or because parts of the state are simply missing from the sensor data.
29.	If the agent has no sensors at all then the environment is _____
30.	Chess is a _____ multiagent environment
Unit 2	
31.	Once a solution is found, the actions it recommends can be carried out. This is called the _____ phase.
32.	A _____ function that assigns a numeric cost to each path.
33.	The process of removing detail from a representation is called _____.
34.	A _____ problem is one whose solutions people actually care about.
35.	The traveling salesperson problem (TSP) is a _____ problem in which each city must be visited exactly once.
36.	A _____ problem requires positioning millions of components and connections on a chip to minimize area, minimize circuit delays, minimize stray capacitances, and maximize manufacturing yield.
37.	The layout problem comes after the logical design phase and is usually split into two parts: _____ and _____.
38.	Robot navigation is a generalization of the _____ problem.
39.	The set of all leaf nodes available for expansion at any given point is called the _____.
40.	The _____ queue pops the element of the queue with the highest priority according to some ordering function.
41.	_____ search is a simple strategy in which the root node is expanded first, then all the successors of the root node are expanded next, then their successors, and so on.
42.	Depth-first search always expands the deepest node in the current frontier of the search tree.
43.	_____ tries to expand the node that is closest to the goal, on the grounds that this is likely to lead to a solution quickly.
44.	The first condition we require for optimality is that $h(n)$ be an _____ heuristic.
45.	_____ is a simple recursive algorithm that attempts to mimic the operation of standard best-first search, but using only linear space.
46.	Problem-solving agents use _____ representations.
47.	Goal-based agents that use more advanced factored or structured representations are usually called _____.
48.	_____, based on the current situation and the agent's performance measure, is the first step in problem solving.
49.	_____ is the process of deciding what actions and states to consider, given a goal.
50.	The _____ is a touring problem in which each city must be visited exactly once.
51.	A path through the state space from the initial state to a goal state is a _____.
52.	_____ can enormously reduce time complexity, but it is not always applicable and may require too much space.
53.	The generic best-first search algorithm selects a node for expansion according to an _____ function.
54.	A _____ is a peak that is higher than each of its neighboring states but lower than the global maximum.
55.	A _____ is a flat area of the state-space landscape.
56.	_____ hill climbing chooses at random from among the uphill moves; the probability of selection can vary with the steepness of the uphill move.
57.	_____ hill climbing implements stochastic hill climbing by generating successors randomly until one is generated that is better than the current state

58.	In a nondeterministic environment, branching is also introduced by the environment's choice of outcome for each action. We call these nodes as _____ nodes.
59.	
60.	A search agent interleaves computation and action: first it takes an action, then it observes the environment and computes the next action.
61.	_____ algorithm keeps track of k states rather than just one.
Unit 3	
62.	What does a first order predicate logic contain?
63.	In AI systems, Knowledge can be represented in two ways. What are these two ways? i. Machine Logic ii. Predicate Logic iii. Propositional Logic iv. Compound Logic
64.	Which is also called single inference rule?
65.	From which rule does the modus ponens are derived?
66.	Which is used to compute the truth of any sentence?
67.	How many logical connectives are there in artificial intelligence?
68.	How many proposition symbols are there in artificial intelligence?
69.	Which is used to construct the complex sentences?
70.	Which is created by using single propositional symbol?
71.	Inference algorithm is complete only if _____
72.	Which is not Familiar Connectives in First Order Logic?
73.	Which is not a property of representation of knowledge?
74.	Wumpus World is a classic problem, best example of _____.
75.	A) Knowledge base (KB) is consists of set of statements. B) Inference is deriving a new sentence from the KB.
76.	Knowledge and reasoning also play a crucial role in dealing with _____ environment.
77.	To which depth does the alpha-beta pruning can be applied?
78.	Which search is like minimax search?
79.	Which value is assigned to alpha and beta in the alpha-beta pruning?
80.	Where does the values of alpha-beta search get updated?
81.	Which is identical to the closed list in Graph search?
82.	Which function is used to calculate the feasibility of whole game tree?
83.	What is the complexity of minimax algorithm?
84.	General algorithm applied on game tree for making decision of win/lose is _____.
85.	The initial state and the legal moves for each side define the _____ for the game.
86.	Zero sum game must be a _____ game.
87.	Adversarial search problems use _____
88.	_____ returns the set of legal moves in a state.
89.	A utility function is also called :
90.	A function defines the final numeric value for game that ends in terminal states for a player p is called
91.	game tree defined by
92.	In a normal search problem , the optimal solution would be a sequence of action leading to a _____
93.	If the agent is acting deterministically, one of the probability will be _____
94.	In _____ system the observer may utilise a memory system in order to add information to observers understanding of the system.
95.	In alpha beta pruning alpha stands for _____
96.	In alpha beta pruning beta stands for _____
97.	In chess the outcome win is represent with value
98.	A zero-sum game is (confusingly) defined as one where the total payoff to all players is the _____ for every instance of the game
Unit 4	
99.	General games involve _____
100.	A _____ is used to demonstrate, on a purely syntactic basis, that one formula is a logical consequence of another formula.
101.	The adjective "first-order" distinguishes first-order logic from _____ in which there are predicates having predicates or functions as arguments, or in which one or both of predicate quantifiers or function quantifiers are permitted.
102.	The knowledge engineer might already be an expert in the domain, or might need to work with real experts to extract what they know—a process called _____

103.	The adjective “first-order” distinguishes first-order logic from _____ in which there are predicates having predicates or functions as arguments, or in which one or both of predicate quantifiers or function quantifiers are permitted.
104.	A Term with no variables is called a _____.
105.	Which statement is a correct example of universal quantification?
106.	Which statement is a correct example of Existential quantification?
107.	Which is not a property of representation of knowledge?
108.	Why First Order Predicate Logic more expressive than Propositional Logic?
109.	First Order Logic symbol can be a _____.
110.	Rules in First Order Logic has two parts i.e. _____.
111.	What is correct About the Universal Quantifier?
112.	What is correct about the First Order Logic (FOL)?
113.	What is Forward Chaining?
114.	What is Backward Chaining?
115.	What is Resolution?
116.	A _____ is used to demonstrate, on a purely syntactic basis, that one formula is a logical consequence of another formula.
117.	The adjective “first-order” distinguishes first-order logic from _____ in which there are predicates having predicates or functions as arguments, or in which one or both of predicate quantifiers or function quantifiers are permitted.
118.	Which is created by using single propositional symbol?
119.	Which is used to construct the complex sentences?
120.	Which is used to compute the truth of any sentence?
121.	What can be viewed as a single lateral of disjunction?
Unit 5	
122.	_____ are used to simplify and organize the knowledge base with the help of inheritance.
123.	_____ is based on time points instead of only start state and end state.
124.	In _____ the knowledge is represented as objects and relationships between objects.
125.	Semantic networks can be represented in _____ through which an object can belong to more than one object.
126.	_____ are the objects to represent the facts but do not specify the truthfulness
127.	Calculus cannot represent _____ actions.
128.	A category(A) ia a subclass of another Category(B)
129.	_____ submodule is used to associate observed words dynamics with a consistent casual model.
130.	An object is a member of a category
131.	_____ submodule is used to associate precise numerical functions to the qualitative causal structures.
132.	_____ nets represents meaning of relationships in a transparent manner
133.	_____ submodule is used to assess the capabilities of our operators against the distribution of planning problems.
134.	the _____ produces planning problems according to some fixed but unknown probabilties
135.	The _____ takes in the problems, along with a library of operators,and output plans which are applied to domain, result in some set of experiences.
136.	Semantic nets are easy to implement using _____
137.	External events cannot change the state of the world is known as
138.	_____ a part on an environment where agent applies actions to achieve goal.
139.	_____ is one of the algorithm which is based on planning graphs.
140.	Full form of STRIPS is _____
141.	Full form of PDDL is _____
142.	_____ is a program used to search solution of a problem if exist.
143.	_____ planning in simple context is known step by step planning where one step is achieved only if previous step is true
144.	_____ planning is the one in which an agent has no sensor for perceiving actions or inputs
145.	Two or more categories are _____ if they have no members in common
146.	Which among the following is not he type of reasoning
147.	With STRIPS you need to first define the _____.
148.	Select the correct example of using STRIPS and PDDL
149.	_____ finds the most optimal solution to a STRIPS problem.
150.	SATPlan reduces planning problem to _____ SAT problem.
151.	In planning approaches Search and _____ is being merged by planning

Linux System Administration

Unit 1	
1.	An interface that sits between the kernel and the end user is called _____.
2.	Which of the following commands is used to create a directory?
3.	The path that is printed as the result of the pwd command is _____.
4.	The touch command creates _____.
5.	Ctrl +C is used to _____.
6.	Background processes are called _____.
7.	Name the command that can be used to forcibly stop an existing process.
8.	To get an overview of current system activity, type the command _____.
9.	Which of the following is used to set the niceness of an already started command(task)?
10.	How to schedule a task through cron? Select the correct command.
11.	When will cron execute the following command?
12.	Select the correct command to dismount an already mounted device.
13.	Which command allows the system administrator to find the name of the device to mount.
14.	Name the command that allows the administrator to check the partitions on the device.
15.	Which of the following commands is equivalent to rpm -ivh package.rpm ?
Unit-2	
16.	_____ makes resizing of volumes possible.
17.	A file system cannot be created on _____ partition.
18.	To create a file system, the _____ utility is used.
19.	Which command is used to create a volume group?
20.	A _____ allows you to freeze the current state of an LVM volume.
21.	_____ is allocated when the server is completely out of memory.
22.	The _____ defines the state in which the server boots.
23.	Which command allows the system administrator to manage services at runtime?
24.	Select the correct path where all the network configuration files are stored.
25.	In the network configuration file, ONBOOT=yes indicates _____.
26.	Name the command that provides an overview of the current configuration of all network cards.
27.	Select the command that is used for adding users to the local authentication system.
28.	Name the file that stores the encrypted user passwords.
29.	What is the numerical value associated with the 'read' permission?
30.	Which command allows us to change user ownership?
Unit 3	
31.	A _____ works through packet inspection.
32.	A firewall uses the _____ chain to process incoming packets.
33.	A _____ is an optional element that you can use in a rule.
34.	Name the command to verify the firewall configuration.
35.	The _____ target allows the firewall to log matching packets.
36.	The proof of authenticity is provided by the _____ Authority.
37.	Select the correct location where all the signed PKI certificates are stored.
38.	What does GPG stand for?
39.	A GPG key _____ means exporting the GPG key.
40.	SSL stands for _____.
41.	Name the configuration file used to setup NFS server.
42.	In NFS, which option maps the user ID of any user to the anonymous user ?
43.	Which section in the samba configuration file contains generic parameters?
44.	In the samba configuration file, which is the default security option?
45.	In the vsftpd configuration, the parameter write_enable allows _____.
Unit 4	
46.	Which system associates hostnames with IP addresses?
47.	Primary and Secondary name servers are considered to be _____ name servers.
48.	The DNS configuration file is _____.
49.	Which parameter is used by the DHCP server to set the range of IP addresses that the DHCP server can assign to clients?
50.	The configuration file for DHCP server is _____.
51.	MTA stands for _____.
52.	The _____ is the list of messages that haven't been sent yet due to some kind of problem.

53.	The configuration file for the Postfix server is _____.
54.	Which parameter in the Postfix configuration file determines the domain seen by the email recipient when receiving messages?
55.	The configuration file for Dovecot is _____.
56.	Name the package that represents Apache web server.
57.	Which parameter in the apache configuration file specifies the maximum number of clients that can be connected?
58.	The most common modules used by Apache are installed to the _____ directory.
59.	A _____ is a definition of different websites to be served by the Apache web server.
60.	_____ is the most important parameter used when defining a virtual host.
Unit 5	
61.	A shell script is a text file that contains a sequence of _____.
62.	The _____ tells the shell which subshell should execute the script.
63.	In a shell script, a variable is defined for the _____ shell only.
64.	To run 'vars' from the current shell, use the command _____.
65.	The _____ command allows a user to provide input to a shell script.
66.	A _____ device is typically a hardware device, which is available to shut down another node, even if the node itself has failed.
67.	_____ takes care of the lower layers of the linux cluster.
68.	_____ is the management interface that is used to create and manage clusters.
69.	The command _____ is used to verify the current state of the cluster.
70.	The _____ mechanism in the cluster helps nodes determine whether they are part of the majority of the cluster.
71.	The role of the _____ server is to deliver an image to the client that performs a PXE boot.
72.	A _____ file allows the system administrator to perform a completely automated installation.
73.	Kickstart is a _____ that can be edited manually.
74.	All the files needed to start the automatic installation are stored in _____.
75.	The configuration file for GRUB is _____.

-----***** END *****-----