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Term End Examination 2024-2025 Programme – B.Sc.(ANCS)-Hons-2023 Course Name – IT Infrastructure Service Management and Entrepreneurship Course Code - BNC30002 (Semester III)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) How do you explain the term "request fulfilment" in the ITIL framework?
 - a) Request fulfillment is a means of managing the changes that users request in the IT environment.
 - c) Request fulfillment is a process for managing the requests from users to the IT department.
- b) Request fulfillment is used to deliver non-IT-related business components to the users.
- d) Request fulfillment is the report produced on the number of password resets carried out by the IT department.
- (ii) How do you explain the "continual service improvement" (CSI) stage of the service lifecycle?
 - a) The CSI stage is concerned with the management of improvement across the whole service lifecycle.
 - c) The CSI stage focuses on improving the operational processes in the service lifecycle.
- b) The CSI stage considers only the improvements needed for the business outputs.
- d) The CSI stage manages the improvements between project management and operational services.
- (iii) How do you define the value of problem management?
 - a) Coordinating Service Design
 - c) Reduced expenditure on workarounds or fixes that do not work
- b) Planning and supporting Service Transitions
- d) Increased customer engagement
- (iv) Identify the reason to raise a change proposal for authorization.
 - a) If the change has a major cost impact on the business
 - c) If the change has been raised by a user
- b) If the change has been assessed as being technical
- d) If the change has been assessed by a supplier
- (v) Choose the correct activity from the list below that is the responsibility of Change Management.

- a) Reviewing changes to ensure they have worked
- c) Determining the release strategy for a major change
- b) Creating a change to rectify a known error
- d) Implementing a software change at a remote site
- (vi) Select the right activity that is NOT part of the release process.
 - a) Moving software from the DSL to the development environment
 - c) Moving software from the development to the test environment
- b) Moving software from the DSL to the live environment
- d) Moving software from the live environment
- (vii) Which of these statements provides the best description of the purpose of service level management?
 - a) Ensure that all current and planned IT services are delivered to agreed achievable targets
 - c) Ensure users have a single point of contact for all operational issues
- b) Ensure there is a high-level relationship with customers to capture business demands
- d) Ensure there is a smooth transition of services to and from service providers
- (viii) Identify the service level requirements that are related to which of the following:
 - a) Utility
 - c) Change records

- b) Warranty
- d) Configuration records
- (ix) Which of these is the best description of the purpose of transition planning and support process?
 - a) To provide overall planning and coordination of resources for service transition
 - c) To provide planning for all designs in the service lifecycle
- b) To provide coordination for all change management activities
- d) To provide planning for operational activities during release management
- (x) What is the purpose of the Service Desk Application?
 - a) To manage customer requests
 - c) To manage IT projects
- (xi) Define the Availability Management.
 - a) The process of managing IT assets
- c) The process of managing IT projects (xii) Define the IT Service Continuity Management.
- b) To manage IT assets d) None of these
- b) The process of ensuring that services are available when customers need them
- d) None of these
- a) The process of managing IT assets
- c) The process of managing IT projects
- b) The process of ensuring that IT services can be restored in the event of a disaster
- d) None of these
- (xiii) Summarize the purpose of the Service Strategy component of the ITIL framework.
 - a) To define the overall business strategy for IT services
 - c) To transition IT services into production
- b) To design new IT services
- (xiv) Identify the purpose of the Continual Service Improvement component of the ITIL d) To operate and support IT services
 - a) To develop a strategy for managing IT services
 - c) To design and build IT services that meet business needs
- b) To implement IT services quickly and efficiently
- None of these
- (xv) Identify the term which is not included in RACI model.
 - a) Responsible
 - c) Informed

- b) Accountable
- d) Incident

Group-B

(Short Answer Type Questions)	3 x 5=15
 Illustrate the activities involved in IT Service Continuity Management. Apply the concept of Capacity Management to manage resources in an IT organization. Define IT Service Management (ITSM) and explain its primary objective. Identify two key performance indicators (KPIs) used to measure the effectiveness of a Service Desk. 	(3) (3) (3) (3)
6. Solve this problem: If the service is available but used only from 9 a.m. to 5 p.m., Mondar Friday (and these 40 hours are the service hours agreed in the SLA), then there will be the same one hour of downtime. Then, then what will be the availability?	y to (3) e
OR Solve this problem: A service suffers four failures in a month. The duration of each was 1 hour, 2 hours, 1.2 hours, and 1.8 hours, resulting in a total downtime of 6 hours. What we the MTRS be?	L (3) vill
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7. What is the purpose of the Availability Management Process?	(5)
8. Illustrate the role of the Service Level Agreement (SLA).	(5)
9. How would you apply the 7 R's of Change Management to real-world changes?	(5)
10. How would you demonstrate incident escalation?	(5)
11. Explain the Service Failure Analysis (SFA).	(5)
12. How would you assess risks by implementing IT service continuity management?	(5)
OR	(5)
How would you explain Mean Time Between Failure (MTBF)?	(5)