# INDRAJEET PANDIT PART TIME GUEST FACULTY

# STUDY MATERIAL OF ENTREPRENEURSHIP & MANAGEMENT (6<sup>th</sup> SEM)

# **Questions:**

- 1. Write any two users of financial statements.
- 2. Write any one advantage of accounting.
- 3. Write any one example of voucher.
- 4. Write any two examples of current assets.
- 5. Differentiate between Book Keeping and Accounting.
- 6. Discuss the objectives of Accounting.
- 7. Explain Cost concept.
- 8. What is mean by accounting standard? What is the main objective of accounting standard?
- 9 Explain the following concepts.
- a. Business entity concept
- b. Going concern concept
- c. Revenue recognition concept
- 9. Explain the utility of Accounting Standards.
- 10. Which principle assumes that a business enterprise will not be liquidated in near future? Ans. Going concern concept.
- 11 "Closing stock is valued lower than the market price" which concept of accounting is applied here?
- Ans. Conservatism (Prudence) concept.
- 12. An asset may defined as a bundle of services" explain with an example.

- 13. Under which accounting principle, quality of manpower is not recommended in the books of accounts?
- 14. A Bill of Exchange must be in writing.
- 15. It must contain an order (and not a request) to make payment.
- 16. The order of payment must be unconditional.
- 17. The amount of bill of exchange must be certain.
- 18. The date of payment should be certain.
- 19. It must be signed by the drawer of the bill.
- 20. It must be accepted by the drawee by signing on it.
- 21. The amount specified in the bill of exchange is payable either on demand or on the expiry of a fixed period.
- 22. The amount specified in the bill is payable either to a certain person or to his order or to the bearer of the bill.
- 23. It must be stamped as per legal requirements.
- 24. What Factors contribute to the development of entrepreneurship?

25.

#### **QUESTION BANK**

#### SUBJECT- INDUSTRIAL ENGG. AND QUALITY CONTROL 6<sup>TH</sup> SEM MECHANICAL BRANCH

#### SHORT QUESTION:- (2 MARKS)

- 1. Define plant location and types of plant location.
- 2. Define plant layout and types of plant layout.
- 3. State the scopes of operation research.
- 4. How LPP can be defined?
- 5. What is feasible solution of LPP?
- 6. Define product scheduling.
- 7. Define CPM & PERT.
- 8. Define network.
- 9. What is an event?
- 10. What is an activity?
- 11. Define Dummy activity.
- 12. What do you mean by critical path?
- 13. Define EST & LFT.
- 14. State Fulkerson's Rule for numbering.
- 15. How expected time is calculated from PERT analysis?
- 16. What is batch production give an example?
- 17. Define inventory.
- 18. What are the different costs associated with inventory?
- 19. What is the need of inventory control?
- 20. Define EOQ.
- 21. Define safety stock.
- 22. Define lead time.
- 23. Define re-order level.
- 24. Write different types inventory models.
- 25. Define P-system & Q-system inventory.
- 26. State the objective of inspection.
- 27. Define quality and why we need to control it?
- 28. Define statistical control.
- 29. What is control chart? Types of control chart.
- 30. Define TQM.
- 31. Define JIT.
- 32. Define lean manufacturing.
- 33. Define 6 sigma limits.
- 34. Define plant maintenance and its objective.
- 35. State different type of plant maintenance.

## LONG QUESTIONS:- (5 MARKS)

- 1. Differentiate between plant location and plant layout.
- 2. What are the factors influencing the plant location?
- 3. Explain job type, batch type and continuous production with their characteristics.
- 4. Differentiate between product and process layout.
- 5. Solve the LPP by graphical method. Max  $Z=3x_1+4x_2$ & s.t  $4x_1+2x_2 \le 80$ ,  $2x_1+5x_2 \le 60$ ,  $X_1$ ,  $x_2 \ge 0$
- 6. Solve the LPP by graphical method. Min Z= $10x_1+8x_2$ & s.t  $2x_1+4x_2 \le 80$   $3x_1+2x_2 \ge 30$  ,  $4x_1+3x_2 \ge 40$ ,  $X_1$  ,  $x_2 \ge 0$

- 7. What is a project? Differentiate between CPM & PERT.
- 8. Draw the network and find the critical path

ACTIVITY	TIME	ACTIVITY	TIME		
1-2	5	5-6	8		
1-3	2	5-7	4		
2-4	3	6-8	7		
3-4	1	7-8	1		
3-5	6	8-10	2		
4-9	5	9-10	5		

9. Draw the network and find the critical path.

ACTIVITY	PREDECESSOR	TIME(DAYS)
Α	-	6
В	-	8
С	А	3
D	А	4
Е	B,D	6
F	B,C,D	10
G	Е	3

- 10. Derive EOQ from basic inventory model.
- 11. Describe P-system and & Q-system of inventory control.
- 12. Explain different types of inspection.
- 13. Describe quality control and objective of quality control.
- 14. Differentiate between variable charts and attribute chart.
- 15. In a manufacturing process the no. Of defectives found in the inspection of 15 lots of 400 times each given below.

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
No of defects	2	5	0	14	3	0	1	0	18	8	6	0	3	0	6

Determine the trial control limits for np chart & state weather the process is in control.

- 16. Explain the elements of TQM.
- 17. Explain JIT and objectives of TQM.
- 18. Explain lean manufacturing.
- 19. Explain 6 sigma.
- 20. Explain different types of plant maintenance.

### LONG QUESTION :- (10 MARKS)

1. A small project is composed of the following activities whose time estimates are given in day. Draw the network, find critical path and compute variance.

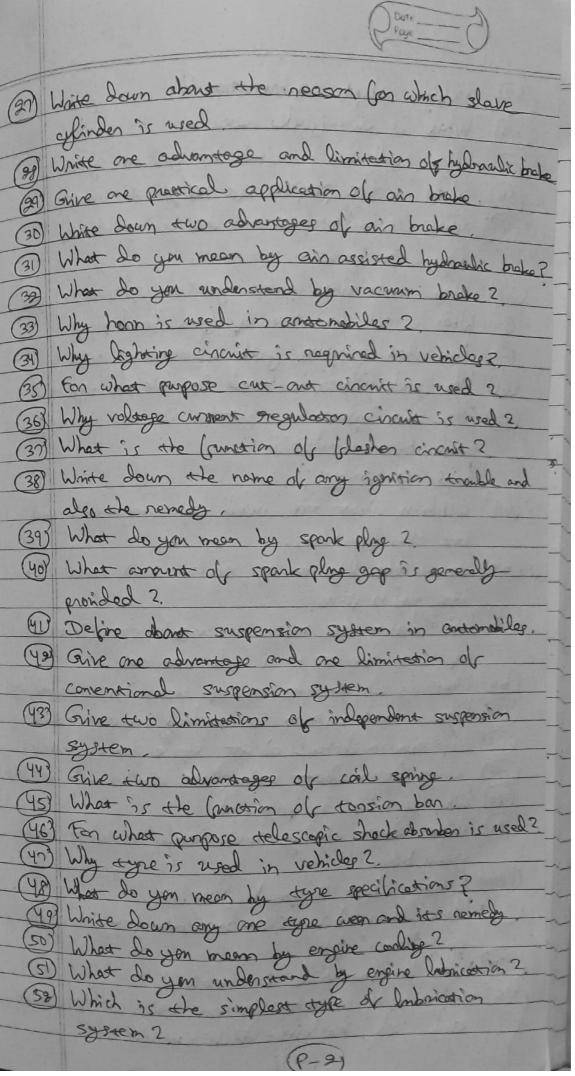
ACTIVITY	t₀	tm	tp	
1-2	1	2	5	
1-3	2	4	6	
1-4	1	2	4	
2-5	1	1	3	
3-5	2	3	4	
4-6	6	4	3	
5-6	3	6	7	

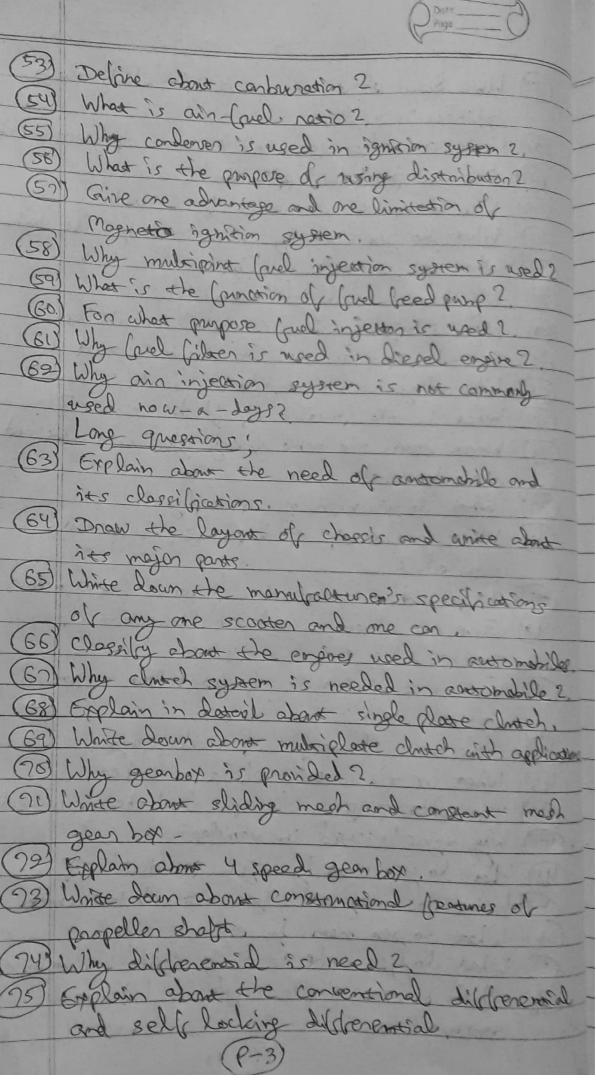
2. Explain ABC analysis, advantages and limitations.

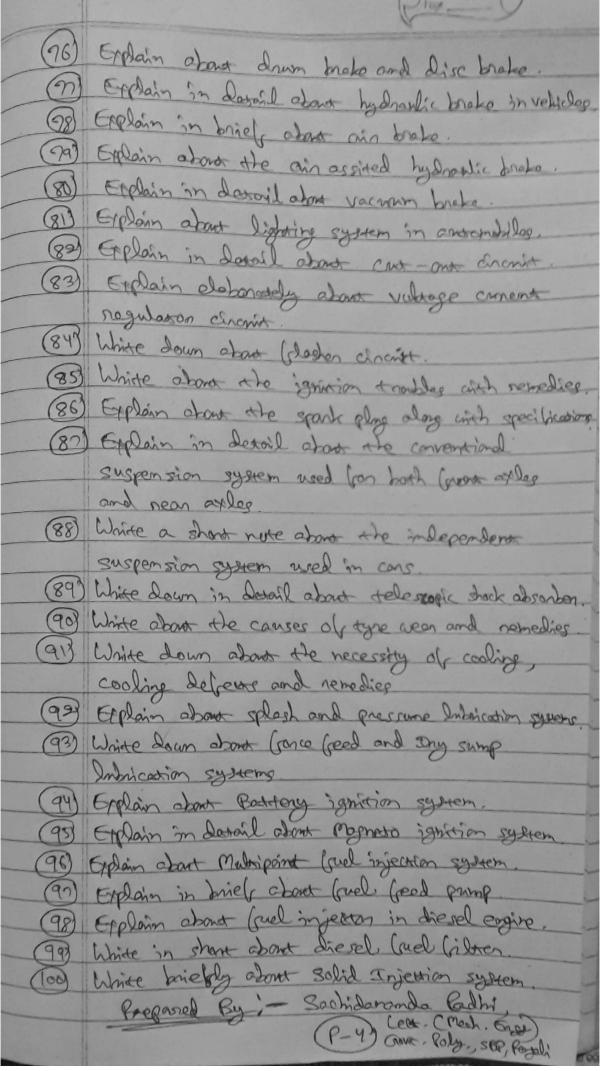
- 3. Compare between X & R chart with P-chart.
- 4. Explain TQM model, principle, objective, benefits & elements of TQM.
- 5. Explain 7s.
- 6. What is plant maintenance? Objective, importance of plant maintenance.
- 7. Explain the duties, functions & responsibilities of plant maintenance department.

Preapared by- Swagatika Babu Lect-Mechanical Engg. Govt. Polytechnic sambalpur (rengali)

Question Bank Automobile Engle 6th Semester, Machanical Enga Short questions; Whoo do you mean by Awamabile? (2) Five two examples of heavy transport which 3) Give one example each (non pernal vehicle and diesel vehicle (4) Define above chassis of an automobile What do you mean by Grave of which Define above oxlas de de automobile 13 What is the function of radiator in the while? (8) classify to ergine according to the amongonat of cylinders. (9) Why and where clotch is used 2 (10) What is the Council of pressure place in class (11) Why clutch place is provided in clutch ? (12) Give examples where single dose clutch is used (13) Montin examples where multiplace church is used (14) What is the function of Geon Box ? (15) Why dog clutch is provided in the constant mesh gear box ? (16) Why and where lay shalt in used in Geor Box ? 1) What do you man by suchnonization (18) What is the punction of propoller shaft? (19) Why differential is provided in while 2 (20) When self locking diffrerential is used 2 (21) What is the Junction of broke ? (99) Give one advantage and limitation of drun brake (93) Write down one advantage and limitation Disc broke 24) Which low is obeyed by hydraulic 95) What is the function of by-pass part? 26) Why moster cylinder is used 2 P-1)







#### **Question Bank**

#### Sub-AMC.

6<sup>th</sup> sem mechanical branch

### **Short Questions**

- 1. Write the name of electrolyte used in ECM.
- 2. What are the abrasive material used for machining of hard metal?
- 3. What is plasma?
- 4. Write the tool name used in LBM?
- 5. What are the application of PAM?
- 6. Define automation?
- 7. Define NC?
- 8. What is punch card and punch tape?
- 9. What is interpolation and it's type?
- 10. What is Robot?
- 11. What is Robot sensing?
- 12. Explain the terms work cell and interlocks?
- 13. What are the benefits of CAD
- 14. What is CRT?
- 15. Which software used in CIM?
- 16. Why FMS is required?
- 17. Write the type of FMS?

# Long questions(5 marks)

- 1. What is LBM? Explain it principle of operation .
- 2. What is EBM? Explain its working.
- 3. What is ECM? Explain with help of a suitable diagram.
- 4. What is EDM? Explain
- 5. What is NC part programming? What sequence followed in computer part programming
- 6. Explain Robot anatomy?
- 7. What are need for FMS?
- 8. Explain CIM?

# Long questions(10marks)

- 1. What is AJM? Explain advantage; disadvantages and application.
- 2. Explain type and need for automation?
- 3. What are the Different numerical control system? Describe NC; CNC; DNC system
- 4. Describe the type of NC coordinate systems?
- 6. What are the main components of robot?
- 7. Explain the component of FMS?
- 8.Diffrence between CAD&CAM?

Prepared by:-Shrimanta Panigrahi Mechanical Branch

Subject > Power Plant Engineering Semester > 6th Breanch -> Mechanical Engg. Question Bank 2 mariks question:> What is central power plant? Give two 2> What is captive power plant? Give two examples. 3> Give examples of some non-conventional sources of energy 4)> Differentiate between primary & secondary sources of energy. 5) Steam power plant operates on which eyele? Draw its P-V & T-S diagreams. 6> Draw P-V & T-S d'agream fon cannot cycle Define work ratio. 8> Define SSC. Write différent processes of Rankine cycle. Differentiale between boiler mountings & boiler accessorcies. Define draught. Clausty draught system. what do you mean by natural draught, 13> Wrote the function of steam condenser. 14> Write uses of cooling tower in steam power plant. What is compounding of steam tembine? what is governing of steam tembine?

Write Function of moderation with examples. write function of control rod with examples. 20) what is nuclear controlled chain reaction? 5 marcks questions: Dreaw line diagream of steam power plant & briefly explain its working, Explain reheat Rankine yele Explain regenerative lanzine cycle, Wiche 5 boilers mountings with its uses. 3> How ESP works? Différentiate between forced draught 3 induced driaught. Emploin about balanced draught. How natural draught cooling tower works? 8> Emploin surface condenser. 9> Explan priesure compounding 10> Explain velocity compounding Differentiate between nuclear fusion & nuclear fission reaction. Explan PWR. Eaploin BWR.

lo marcks questions: Explain layour of steam power plant with each circuits. 2> A simple Rankine cycle works between boiler Pressure of 30 bar & initial condition of Steam as dry saturated, condensate and condenser pressure of 0.2 barr. find cycle efficiency, work reatio & ssc 3) In a Rankine cycle, the steam at inlet to turbine is supercheated at a pressure of 50 bar & 400°C & exhausted into the condenser at 0-2 ban. Determine i) efficiency of the cycle ii) pump work iii) Turbine work iv) Heat rejected into the condensen v) SSC 4> Explain Reheat-Regenerative Rankine cycle. 3> wrote short notes on a) Aire precheater (on) of Superheater
b) Economiser (on) d) ESP b) Economiser 6> Write show notes on a) cooling tower c) governing of steam b) steam condensers turbine Explan throttle governing with neat skerch 8> Explain working of diesel power plans. 9> Explain working of hydro electric power plant with near sketch.